

RADIO FIX AND HOLDING DATA RECORD

NAME: ALBANY VORTAC STATE: NY COUNTRY: US ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 424450.21N/0734811.46W TYPE:

AIRSPACE DOCKET: FIX TYPE OF ACTION: MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM FEET	MRA	MAA
1	ALBANY	ALB	VORTAC	L						45000

FIX RESTRICTIONS:

MCA V91 9700 SOUTHBOUND
MCA V489 13300 SOUTHWEST BOUND
MCA V123 6000 SOUTHBOUND
MCA V157 6000 SOUTHBOUND
MCA V44 6000 SOUTHBOUND

INFORMATION ONLY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME DME	HOLDING ALTITUDES MIN MAX	TEMPLATES MIN MAX
1	W	ALB	VORTAC	283.00	103.00	R	1	4000 6000	4 5

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	424330.00N/0740115.00W	821	4E

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN(S)

REMARKS:

CHART SECTIONAL ATC REQUEST.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.
ALB MAGNETIC VARIATION W13/1980.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BANGOR			KBGR	BANGOR	ME (US)
DP	ALBANY			KALB	ALBANY	NY (US)
DP	BURLINGTON			KBTV	BURLINGTON	VT (US)
EN ROUTE	J190					(US)
EN ROUTE	J49					(US)
EN ROUTE	J6					(US)
EN ROUTE	Q82					(US)
EN ROUTE	Q935					(US)
EN ROUTE	T291					(US)
EN ROUTE	T299					(US)
EN ROUTE	T300					(US)
EN ROUTE	T608					(US)
EN ROUTE	V123					(US)
EN ROUTE	V146					(US)
EN ROUTE	V157					(US)
EN ROUTE	V213					(US)
EN ROUTE	V44					(US)
EN ROUTE	V489					(US)
EN ROUTE	V91					(US)
IAP	ILS OR LOC RWY 1			KALB	ALBANY	NY (US)
IAP	ILS OR LOC RWY 19			KALB	ALBANY	NY (US)
IAP	ILS RWY 1 (SA CAT II)			KALB	ALBANY	NY (US)
IAP	VOR RWY 28		1	KALB	ALBANY	NY (US)
IAP	RNAV (GPS) RWY 5			5B2	SARATOGA SPRINGS	NY (US)
IAP	ILS OR LOC RWY 4		1	KSCH	SCHENECTADY	NY (US)
IAP	NDB RWY 22			KSCH	SCHENECTADY	NY (US)
IAP	RNAV (GPS) RWY 28			KSCH	SCHENECTADY	NY (US)
IAP	RNAV (GPS) RWY 4			KSCH	SCHENECTADY	NY (US)
STAR	BRIDGEPORT			KBDR	BRIDGEPORT	CT (US)
STAR	DENNA			KBDR	BRIDGEPORT	CT (US)
STAR	NOBBI			KDXR	DANBURY	CT (US)
STAR	VALRE			KDXR	DANBURY	CT (US)
STAR	STELA			KHFD	HARTFORD	CT (US)
STAR	BRIDGEPORT			KHVN	NEW HAVEN	CT (US)
STAR	DENNA			KHVN	NEW HAVEN	CT (US)
STAR	BRIDGEPORT			KOXC	OXFORD	CT (US)
STAR	DENNA			KOXC	OXFORD	CT (US)
STAR	STELA			KBDL	WINDSOR LOCKS	CT (US)
STAR	HYPER (RNAV)			KHEF	WASHINGTON	DC (US)
STAR	HYPER (RNAV)			KIAD	WASHINGTON	DC (US)
STAR	GARDNER			KBOS	BOSTON	MA (US)
STAR	WIPOR (RNAV)			KEWB	NEW BEDFORD	MA (US)

STAR	STELA	KCEF	SPRINGFIELD/CHICOPEE	MA (US)
STAR	STELA	KBAF	WESTFIELD/SPRINGFIELD	MA (US)
STAR	STELA	KORH	WORCESTER	MA (US)
STAR	FLOSI (RNAV)	KEWR	NEWARK	NJ (US)
STAR	SHAFF	KEWR	NEWARK	NJ (US)
STAR	PAWLING	KFRG	FARMINGDALE	NY (US)
STAR	LOVES	KISP	NEW YORK	NY (US)
STAR	NELIE (RNAV)	KISP	NEW YORK	NY (US)
STAR	PAWLING	KJFK	NEW YORK	NY (US)
STAR	HAARP	KLGA	NEW YORK	NY (US)
STAR	NOBBI	KLGA	NEW YORK	NY (US)
STAR	NELIE (RNAV)	KFOK	WESTHAMPTON BEACH	NY (US)
STAR	NOBBI	KHPN	WHITE PLAINS	NY (US)
STAR	VALRE	KHPN	WHITE PLAINS	NY (US)
STAR	WIPOR (RNAV)	KUUU	NEWPORT	RI (US)
STAR	WIPOR (RNAV)	KOQU	NORTH KINGSTOWN	RI (US)
STAR	WIPOR (RNAV)	KSFZ	PAWTUCKET	RI (US)
STAR	WIPOR (RNAV)	KPVD	PROVIDENCE	RI (US)
STAR	HYPER (RNAV)	KCJR	CULPEPER	VA (US)
STAR	HYPER (RNAV)	KEZF	FREDERICKSBURG	VA (US)
STAR	HYPER (RNAV)	KFRR	FRONT ROYAL	VA (US)
STAR	HYPER (RNAV)	KJYO	LEESBURG	VA (US)
STAR	HYPER (RNAV)	KNYG	QUANTICO	VA (US)
STAR	HYPER (RNAV)	KRMN	STAFFORD	VA (US)
STAR	HYPER (RNAV)	KHWY	WARRENTON	VA (US)
STAR	HYPER (RNAV)	KOKV	WINCHESTER	VA (US)
STAR	HYPER (RNAV)	KMRB	MARTINSBURG	WV (US)

REQUIRED CHARTING: SECTIONAL, DP, STAR, IAP, EN ROUTE LOW, EN ROUTE HIGH, CONTROLLER LOW, CONTROLLER HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 26

DATE OF REVISION: 11/30/2023

REASON FOR REVISION:

FIX MAKE-UP: CHANGED FAC ALB MAA FROM 17500 TO 45000.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A442

NAME: TARA MARTINELLI

APPROVED BY:

DATE: 11/30/2023

OFFICE: AJV-A442

NAME: DAVID DANNER

SIGNATURE:

INFORMATION ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: ATWAN

STATE: NY

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 414415.03N/0734914.27W

TYPE: WP, INT, DME

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	MRA	MAA
1	KINGSTON	IGN	VOR/DME	L	012.95	000.95	4.32	4.32	3000	17500
2	PAWLING	PWL	VOR/DME	L	271.00	259.00		10.07	3000	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG TIME	LENGTH DME	HOLDING MIN	ALTITUDES MAX	TEMPLATES MIN	MAX
1	N	IGN	VOR/DME	013.00	193.00	R	1		3000	8000	4	8

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	414412.00N/0734445.00W	1070	4E
1	310	TOWER (36-000979)	414307.49N/0735945.41W	2000	1A

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

INFORMATION ONLY

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	VOR/DME RWY 24	KPOU	POUGHKEEPSIE	NY (US)

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	VOR/DME RWY 24	1, 2	1	KPOU	POUGHKEEPSIE	NY (US)
STAR	HYPER (RNAV)			KHEF	WASHINGTON	DC (US)
STAR	HYPER (RNAV)			KIAD	WASHINGTON	DC (US)
STAR	HYPER (RNAV)			KCJR	CULPEPER	VA (US)
STAR	HYPER (RNAV)			KEZF	FREDERICKSBURG	VA (US)
STAR	HYPER (RNAV)			KFRR	FRONT ROYAL	VA (US)
STAR	HYPER (RNAV)			KJYO	LEESBURG	VA (US)
STAR	HYPER (RNAV)			KNYG	QUANTICO	VA (US)
STAR	HYPER (RNAV)			KRMN	STAFFORD	VA (US)
STAR	HYPER (RNAV)			KHWY	WARRENTON	VA (US)
STAR	HYPER (RNAV)			KOKV	WINCHESTER	VA (US)
STAR	HYPER (RNAV)			KMRB	MARTINSBURG	WV (US)

REQUIRED CHARTING: STAR, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3

DATE OF REVISION: 08/20/2015

REASON FOR REVISION:

1. ADDED WP TO FIX TYPE.
2. AMENDED FAC 1 MAG BRG FROM 012.99 TO 012.95.
3. ADDED DIST FROM FAC TO FAC 1 AND FAC 2.
4. AMENDED FAC 1 AND 2 MAA FROM 8000 TO 17500.
5. ADDED STAR TO REQUIRED CHARTING.
6. ADDED HYPER STAR TO FIX USE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 04/07/2015

OFFICE: AJV-352

NAME: PETER GUIMOND

APPROVED BY:

DATE: 08/04/2015

OFFICE: AJV-352

NAME: ADOLFO URRUTIA

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: EST
ARTCC: ZBW
ATC FACILITY: NY TRACON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: BARNES VORTAC STATE: MA COUNTRY: US ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 420943.05N/0724258.32W

TYPE:

AIRSPACE DOCKET: 22-AEA-16

FIX TYPE OF ACTION: NO CHANGE

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM FEET	MRA	MAA
1	BARNES	BAF	VORTAC	VL						45000

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME DME	HOLDING ALTITUDES MIN MAX	TEMPLATES MIN MAX
1	E	BAF	VORTAC	094.75	274.75	L	1	4000 45000	4 29

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	421109.00N/0724742.00W	1306	4E

REASON FOR NONSTANDARD HOLDING:

PAT 1 AIR TRAFFIC CONTROL REQUESTED TO PROTECT SECTOR BOUNDARIES

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

INFORMATION ONLY

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
FACILITY MAG VAR: 14W 1980.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BRADLEY			KBDL	WINDSOR LOCKS	CT (US)
DP	HANSCOM			KBED	BEDFORD	MA (US)
DP	BEVERLY			KBVY	BEVERLY	MA (US)
DP	BLZZR (RNAV)			KBOS	BOSTON	MA (US)
DP	LOGAN			KBOS	BOSTON	MA (US)
DP	REVSS (RNAV)			KBOS	BOSTON	MA (US)
DP	WYLYY (RNAV)			KBOS	BOSTON	MA (US)
DP	LAWRENCE			KLWM	LAWRENCE	MA (US)
DP	NORWOOD			KOWD	NORWOOD	MA (US)
DP	NUBLE (RNAV)			KPWM	PORTLAND	ME (US)
DP	PPOINT (RNAV)			KMHT	MANCHESTER	NH (US)
EN ROUTE	Q406					(US)
EN ROUTE	Q448					(US)
EN ROUTE	Q480					(US)
EN ROUTE	T314					(US)
EN ROUTE	T460					(US)
EN ROUTE	V146					(US)
EN ROUTE	V292					(US)
EN ROUTE	V405					(US)
IAP	COPTER ILS OR LOC RWY 6		1	KBDL	WINDSOR LOCKS	CT (US)
IAP	ILS OR LOC RWY 24		1	KBDL	WINDSOR LOCKS	CT (US)
IAP	ILS OR LOC RWY 33		1	KBDL	WINDSOR LOCKS	CT (US)
IAP	ILS OR LOC RWY 6		1	KBDL	WINDSOR LOCKS	CT (US)
IAP	ILS RWY 24 (SA CAT I - II)		1	KBDL	WINDSOR LOCKS	CT (US)
IAP	ILS RWY 6 (CAT II - III)		1	KBDL	WINDSOR LOCKS	CT (US)
IAP	ILS RWY 6 (SA CAT I)		1	KBDL	WINDSOR LOCKS	CT (US)
IAP	VOR/DME-B			7B2	NORTHAMPTON	MA (US)
IAP	ILS OR LOC RWY 20			KBAF	WESTFIELD/SPRINGFIELD	MA (US)
IAP	VOR OR TACAN RWY 2			KBAF	WESTFIELD/SPRINGFIELD	MA (US)
IAP	VOR RWY 20			KBAF	WESTFIELD/SPRINGFIELD	MA (US)
IAP	RNAV (GPS) RWY 11			KORH	WORCESTER	MA (US)
STAR	NOBBI			KDXR	DANBURY	CT (US)
STAR	STELA			KHFD	HARTFORD	CT (US)
STAR	STELA			KBDL	WINDSOR LOCKS	CT (US)
STAR	HYPER (RNAV)			KHEF	WASHINGTON	DC (US)
STAR	HYPER (RNAV)			KIAD	WASHINGTON	DC (US)
STAR	STELA			KCEF	SPRINGFIELD/CHICOPEE	MA (US)
STAR	STELA			KBAF	WESTFIELD/SPRINGFIELD	MA (US)
STAR	STELA			KORH	WORCESTER	MA (US)
STAR	FLOSI (RNAV)			KEWR	NEWARK	NJ (US)
STAR	SHAFF			KEWR	NEWARK	NJ (US)
STAR	NOBBI			KLGA	NEW YORK	NY (US)
STAR	NOBBI			KHPN	WHITE PLAINS	NY (US)
STAR	HYPER (RNAV)			KCJR	CULPEPER	VA (US)
STAR	HYPER (RNAV)			KEZF	FREDERICKSBURG	VA (US)
STAR	HYPER (RNAV)			KFRR	FRONT ROYAL	VA (US)
STAR	HYPER (RNAV)			KJYO	LEESBURG	VA (US)

STAR	HYPER (RNAV)	KNYG	QUANTICO	VA (US)
STAR	HYPER (RNAV)	KRMN	STAFFORD	VA (US)
STAR	HYPER (RNAV)	KHWY	WARRENTON	VA (US)
STAR	HYPER (RNAV)	KOKV	WINCHESTER	VA (US)
STAR	HYPER (RNAV)	KMRB	MARTINSBURG	WV (US)

REQUIRED CHARTING: DP, STAR, MILITARY IAP, IAP, EN ROUTE LOW, EN ROUTE HIGH, CONTROLLER LOW, CONTROLLER HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 21

DATE OF REVISION: 11/30/2023

REASON FOR REVISION:

AIRSPACE DOCKET: CHANGED 20-AEA-10 TO 22-AEA-16.

HOLDING RESTRICTIONS: CHANGED PATTERN(S) TO PATTERN.

FIX USE: ADDED T460.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: BARRY SMITH

APPROVED BY:

DATE: 11/30/2023

OFFICE: AJV-A423

NAME: ALLAN WILL

SIGNATURE:

INFORMATION ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: BEEZY

STATE: MD

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 391425.81N/0772813.81W

TYPE: WP, RADAR, INT, DME

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	FEET	MRA	MAA
1	WASHINGTON	I-ISU	LOC/DME		010.65	000.65	16.00	17.88		4000	4700
2	MARTINSBURG	MRB	VORTAC	L	123.18	116.18	19.63	19.63		4000	4700
3	WESTMINSTER	EMI	VORTAC	VH	244.47	236.47		27.51		4000	4700

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

WASHINGTON (FAC 1) USED TO ESTABLISH FIX COORDINATES.
I-ISU DME COORDINATES: 385825.08N-0772831.16W

INFORMATION ONLY

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC/DME RWY 19R	1, 2, 3		KIAD	WASHINGTON	DC (US)
IAP	ILS RWY 19R (CAT II & III)	1, 2, 3		KIAD	WASHINGTON	DC (US)
IAP	RNAV (GPS) RWY 19R			KIAD	WASHINGTON	DC (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4

DATE OF REVISION: 03/21/2024

REASON FOR REVISION:

1. REMOVED FROM FIX USE AT KIAD; STAR LEGGO (RNAV) AND STAR MAPEL (RNAV).
2. REMOVED FROM FIX USE HYPER (RNAV) STAR.
3. REMOVED STAR FROM REQUIRED CHARTING.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A432

NAME: TYLER MITCHELL

APPROVED BY:

DATE: 03/21/2024

OFFICE: AJV-A432

NAME: CASIMIR TABAKA

SIGNATURE:

RADIO FIX AND HOLDING DATA RECORD

NAME: BINNS

STATE: PA

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 394706.22N/0770039.58W

TYPE: WP, INT, DME

AIRSPACE DOCKET: 23-AEA-2

FIX TYPE OF ACTION: MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM FEET	MRA	MAA
1	LANCASTER	LRP	VOR/DME	L	248.07	239.07	38.81	38.81	9000	17500
2	WESTMINSTER	EMI	VORTAC	VH	003.07	355.07	17.45	17.45	3400	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME DME	HOLDING ALTITUDES MIN MAX	TEMPLATES MIN MAX
1	E		WP	068.61	248.61	R	7	10000 13000	12 14
2	E	LRP	VOR/DME	248.07	248.07	R	1	9000 17000	13 18

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	265	TOWER (42-000370)	395126.00N/0765655.00W	1547	4D
2	265	TOWER (42-000370)	395126.00N/0765655.00W	1547	4D

HOLDING RESTRICTIONS:

PAT 1 CHART 265K ICON
HOLDING LIMITED TO ESTABLISHED PATTERNS.
PAT 2 CHART 265K ICON

INFORMATION ONLY

REMARKS:

LANCASTER (FAC 1) AND WESTMINSTER (FAC 2) USED TO ESTABLISH FIX COORDINATES.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.
265K UTILIZED ON PAT 1 AND PAT 2 PER ATC REQUEST.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V143	1, 2				(US)
EN ROUTE	V265	1, 2				(US)
EN ROUTE	V39	1, 2				(US)
IAP	RNAV (GPS) Y RWY 23			KFDK	FREDERICK	MD (US)
IAP	RNAV (GPS) Z RWY 23			KFDK	FREDERICK	MD (US)
IAP	RNAV (GPS) RWY 16			KDMW	WESTMINSTER	MD (US)
STAR	HYPER (RNAV)		1	KHEF	WASHINGTON	DC (US)
STAR	DELRO	1, 2	2	KIAD	WASHINGTON	DC (US)
STAR	HYPER (RNAV)		1	KIAD	WASHINGTON	DC (US)
STAR	HYPER (RNAV)		1	KCJR	CULPEPER	VA (US)
STAR	HYPER (RNAV)		1	KEZF	FREDERICKSBURG	VA (US)
STAR	HYPER (RNAV)		1	KFRR	FRONT ROYAL	VA (US)
STAR	HYPER (RNAV)		1	KJYO	LEESBURG	VA (US)
STAR	HYPER (RNAV)		1	KNYG	QUANTICO	VA (US)
STAR	HYPER (RNAV)		1	KRMN	STAFFORD	VA (US)
STAR	HYPER (RNAV)		1	KHWY	WARRENTON	VA (US)
STAR	HYPER (RNAV)		1	KOKV	WINCHESTER	VA (US)
STAR	HYPER (RNAV)		1	KMRB	MARTINSBURG	WV (US)

REQUIRED CHARTING: STAR, IAP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 12

DATE OF REVISION: 01/25/2024

REASON FOR REVISION:

AIRSPACE DOCKET: ADDED 23-AEA-2.
FIX RESTRICTIONS: REMOVED V265 MRA - NOT DOCUMENTED OR CHARTED.
FIX USE: REMOVED T445.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: BARRY SMITH

APPROVED BY:

DATE: 01/25/2024

OFFICE: AJV-A421

NAME: JASON KRETSCHMER

SIGNATURE:

RADIO FIX AND HOLDING DATA RECORD

NAME: BOTLS

STATE: NJ

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 405508.24N/0744948.79W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

HOLDING:

HOLDING TYPE OF ACTION:

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	HYPER (RNAV)			KHEF	WASHINGTON	DC (US)
STAR	HYPER (RNAV)			KIAD	WASHINGTON	DC (US)
STAR	HYPER (RNAV)			KCJR	CULPEPER	VA (US)
STAR	HYPER (RNAV)			KEZF	FREDERICKSBURG	VA (US)
STAR	HYPER (RNAV)			KFRR	FRONT ROYAL	VA (US)
STAR	HYPER (RNAV)			KJYO	LEESBURG	VA (US)
STAR	HYPER (RNAV)			KNYG	QUANTICO	VA (US)
STAR	HYPER (RNAV)			KRMN	STAFFORD	VA (US)
STAR	HYPER (RNAV)			KHWY	WARRENTON	VA (US)
STAR	HYPER (RNAV)			KOKV	WINCHESTER	VA (US)
STAR	HYPER (RNAV)			KMRB	MARTINSBURG	WV (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

INFORMATION ONLY

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 08/20/2015

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 04/07/2015

OFFICE: AJV-352

NAME: PETER GUIMOND

APPROVED BY:

DATE: 08/04/2015

OFFICE: AJV-352

NAME: ADOLFO URRUTIA

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: EST
ARTCC: ZNY
ATC FACILITY:
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: COVUR

STATE: MD

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 392132.66N/0772712.49W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: CANCEL

HOLDING:

HOLDING TYPE OF ACTION:

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	HYPER (RNAV)			KHEF	WASHINGTON	DC (US)
STAR	HYPER (RNAV)			KIAD	WASHINGTON	DC (US)
STAR	LEGGO (RNAV)			KIAD	WASHINGTON	DC (US)
STAR	MAPEL (RNAV)			KIAD	WASHINGTON	DC (US)
STAR	HYPER (RNAV)			KCJR	CULPEPER	VA (US)
STAR	HYPER (RNAV)			KEZF	FREDERICKSBURG	VA (US)
STAR	HYPER (RNAV)			KFRR	FRONT ROYAL	VA (US)
STAR	HYPER (RNAV)			KJYO	LEESBURG	VA (US)
STAR	HYPER (RNAV)			KNYG	QUANTICO	VA (US)
STAR	HYPER (RNAV)			KRMN	STAFFORD	VA (US)
STAR	HYPER (RNAV)			KHWY	WARRENTON	VA (US)
STAR	HYPER (RNAV)			KOKV	WINCHESTER	VA (US)
STAR	HYPER (RNAV)			KMRB	MARTINSBURG	WV (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 08/20/2015

REASON FOR REVISION:

1. DELETED GRAVZ STAR FROM FIX USE.
2. ADDED MAPEL AND LEGGO STAR(S) TO FIX USE.

INFORMATION ONLY

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 04/04/2015

OFFICE: AJV-352

NAME: PETER GUIMOND

APPROVED BY:

DATE: 03/21/2024

OFFICE: AJV-A432

NAME: CASIMIR TABAKA

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: EST
ARTCC: ZDC
ATC FACILITY: POTOMAC APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: DADEY

STATE: MD

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 391352.68N/0772554.59W

TYPE: WP, RADAR, DME

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	FEET	MRA	MAA
1	WASHINGTON	I-SGC	LOC/DME		010.67	000.67	18.68	16.67		3000	4800

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
I-SGC	LOC/DME	R-011	19	3000	4800

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

I-SGC DME COORDINATES: 385511.08N-0772604.61W

INFORMATION ONLY

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 19L	1		KIAD	WASHINGTON	DC (US)
IAP	ILS RWY 19L (SA CAT II)	1		KIAD	WASHINGTON	DC (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 6

DATE OF REVISION: 03/21/2024

REASON FOR REVISION:

1. REMOVED FROM FIX USE AT KIAD; STAR LEGGO (RNAV) AND STAR MAPEL (RNAV).
2. REMOVED HYPER (RNAV) STAR FROM FIX USE.
3. REMOVED STAR FROM REQUIRED CHARTING.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A432

NAME: TYLER MITCHELL

APPROVED BY:

DATE: 03/21/2024

OFFICE: AJV-A432

NAME: CASIMIR TABAKA

SIGNATURE:

RADIO FIX AND HOLDING DATA RECORD

NAME: DELRO STATE: PA COUNTRY: US ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 395755.71N/0763731.24W TYPE: WP, INT, DME

AIRSPACE DOCKET: 22-AEA-34 FIX TYPE OF ACTION: MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	MRA	MAA
1	LANCASTER	LRP	VOR/DME	L	248.07	239.07	17.97	17.97	3000	17500
2	BALTIMORE	BAL	VORTAC	L	012.99	001.99		47.65	4000	17500
3	MODENA	MXE	VORTAC	L	283.00	274.00	44.14	44.14	10000	17500
4	RAVINE	RAV	VORTAC	L	192.95	181.95		35.27	3000	17500
5	HARRISBURG	HAR	VORTAC	L	144.50	134.50	28.73	28.73	3000	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
BAL	VORTAC	R-013	48	4000	17500
MXE	VORTAC	R-283	45	10000	17500

FIX RESTRICTIONS:

MCA V184 10000 EASTBOUND

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

LANCASTER (FAC 1) AND HARRISBURG (FAC 5) USED TO ESTABLISH FIX COORDINATES.
ATC REQUEST SECTIONAL CHARTING.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	T456					(US)
EN ROUTE	V143	1, 5				(US)
EN ROUTE	V184	3, 4, 5				(US)
EN ROUTE	V39	1, 5				(US)
IAP	RNAV (GPS) RWY 8			KLNS	LANCASTER	PA (US)
STAR	HYPER (RNAV)			KHEF	WASHINGTON	DC (US)
STAR	DELRO	1, 2, 3, 4		KIAD	WASHINGTON	DC (US)
STAR	HYPER (RNAV)			KIAD	WASHINGTON	DC (US)
STAR	HYPER (RNAV)			KCJR	CULPEPER	VA (US)
STAR	HYPER (RNAV)			KEZF	FREDERICKSBURG	VA (US)
STAR	HYPER (RNAV)			KFRR	FRONT ROYAL	VA (US)
STAR	HYPER (RNAV)			KJYO	LEESBURG	VA (US)
STAR	HYPER (RNAV)			KNYG	QUANTICO	VA (US)
STAR	HYPER (RNAV)			KRMN	STAFFORD	VA (US)
STAR	HYPER (RNAV)			KHWY	WARRENTON	VA (US)
STAR	HYPER (RNAV)			KOKV	WINCHESTER	VA (US)
STAR	HYPER (RNAV)			KMRB	MARTINSBURG	WV (US)

REQUIRED CHARTING: SECTIONAL, STAR, IAP, AREA, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 19

DATE OF REVISION: 11/30/2023

REASON FOR REVISION:

- DOCKET: UPDATED "21-AEA-31" TO "22-AEA-34".
- FIX MAKE-UP: REMOVED "ST THOMAS THS VORTAC" AND ASSOCIATED ESV; RENUMBERED REMAINING FACILITIES.
- FIX USE: REMOVED "EN ROUTE V474".

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A421

NAME: HENRY BRADSHAW

APPROVED BY:

DATE: 11/30/2023

OFFICE: AJV-A423

NAME: ALLAN WILL

SIGNATURE:

INFORMATION ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: DIMKE

STATE: MD

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 391832.78N/0772715.78W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE

IAP

IAP

USE TITLE

RNAV (GPS) Y RWY 19C

RNAV (RNP) Z RWY 19C

FAC

PAT

AIRPORT IDENT

KIAD

KIAD

CITY

WASHINGTON

WASHINGTON

STATE

DC (US)

DC (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

INFORMATION ONLY

RECORD REVISION NUMBER: 3

DATE OF REVISION: 03/21/2024

REASON FOR REVISION:

1. REMOVED FROM FIX USE AT KIAD; STAR LEGGO (RNAV) AND STAR MAPEL (RNAV).
2. REMOVED HYPER (RNAV) STAR FROM FIX USE.
3. REMOVED STAR FROM REQUIRED CHARTING.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A432

NAME: TYLER MITCHELL

APPROVED BY:

DATE: 03/21/2024

OFFICE: AJV-A432

NAME: CASIMIR TABAKA

SIGNATURE:

RADIO FIX AND HOLDING DATA RECORD

NAME: FILGA

STATE: NY

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 412428.13N/0740112.37W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 34			KSWF	NEWBURGH	NY (US)
STAR	HYPER (RNAV)			KHEF	WASHINGTON	DC (US)
STAR	HYPER (RNAV)			KIAD	WASHINGTON	DC (US)
STAR	HYPER (RNAV)			KCJR	CULPEPER	VA (US)
STAR	HYPER (RNAV)			KEZF	FREDERICKSBURG	VA (US)
STAR	HYPER (RNAV)			KFRR	FRONT ROYAL	VA (US)
STAR	HYPER (RNAV)			KJYO	LEESBURG	VA (US)
STAR	HYPER (RNAV)			KNYG	QUANTICO	VA (US)
STAR	HYPER (RNAV)			KRMN	STAFFORD	VA (US)
STAR	HYPER (RNAV)			KHWY	WARRENTON	VA (US)
STAR	HYPER (RNAV)			KOKV	WINCHESTER	VA (US)
STAR	HYPER (RNAV)			KMRB	MARTINSBURG	WV (US)

REQUIRED CHARTING: STAR, IAP

COMPULSORY REPORTING POINT: NO

INFORMATION ONLY

RECORD REVISION NUMBER: 2

DATE OF REVISION: 08/20/2015

REASON FOR REVISION:

1. ADDED STAR TO REQUIRED CHARTING.
2. ADDED HYPER STAR TO FIX USE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 04/07/2015

OFFICE: AJV-352

NAME: PETER GUIMOND

APPROVED BY:

DATE: 08/04/2015

OFFICE: AJV-352

NAME: ADOLFO URRUTIA

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: EST
ARTCC: ZBW
ATC FACILITY: NY TRACON, SWF TOWER
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: HIKES

STATE: PA

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 402255.93N/0753654.90W

TYPE: WP, INT, DME

AIRSPACE DOCKET: 22-AEA-16

FIX TYPE OF ACTION: NO CHANGE

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM FEET	MRA	MAA
1	YARDLEY	ARD	VOR/DME	L	293.61	283.61	33.38	33.38	6000	17500
2	POTTSTOWN	PTW	VORTAC	L	354.27	345.27	9.92	9.92	2900	17500
3	LANCASTER	LRP	VOR/DME	L	071.93	062.93		34.81	4000	17500

FIX RESTRICTIONS:

MRA V29 4000
MRA V408 4000
MRA V276 4000

INFORMATION ONLY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

YARDLEY (FAC 1) AND POTTSTOWN (FAC 2) USED TO ESTABLISH FIX COORDINATES.
CHART ON SECTIONAL - ATC REQUEST.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	T438					(US)
EN ROUTE	T447					(US)
EN ROUTE	V276	1, 2				(US)
EN ROUTE	V29	1, 2, 3				(US)
EN ROUTE	V408	1, 2, 3				(US)
IAP	RNAV (GPS) RWY 11			KUKT	QUAKERTOWN	PA (US)
IAP	RNAV (GPS) RWY 29			KUKT	QUAKERTOWN	PA (US)
STAR	HYPER (RNAV)			KHEF	WASHINGTON	DC (US)
STAR	HYPER (RNAV)			KIAD	WASHINGTON	DC (US)
STAR	HYPER (RNAV)			KCJR	CULPEPER	VA (US)
STAR	HYPER (RNAV)			KEZF	FREDERICKSBURG	VA (US)
STAR	HYPER (RNAV)			KFRR	FRONT ROYAL	VA (US)
STAR	HYPER (RNAV)			KJYO	LEESBURG	VA (US)
STAR	HYPER (RNAV)			KNYG	QUANTICO	VA (US)
STAR	HYPER (RNAV)			KRMN	STAFFORD	VA (US)
STAR	HYPER (RNAV)			KHWY	WARRENTON	VA (US)
STAR	HYPER (RNAV)			KOKV	WINCHESTER	VA (US)
STAR	HYPER (RNAV)			KMRB	MARTINSBURG	WV (US)

REQUIRED CHARTING: SECTIONAL, STAR, IAP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 10

DATE OF REVISION: 11/30/2023

REASON FOR REVISION:

AIRSPACE DOCKET: CHANGED 21-AEA-16 TO 22-AEA-16
FIX USE: ADDED T447

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: GALE SHELTON

APPROVED BY:

DATE: 11/30/2023

OFFICE: AJV-A423

NAME: ALLAN WILL

SIGNATURE:

RADIO FIX AND HOLDING DATA RECORD

NAME: HOOSR

STATE: MD

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 391334.29N/0772720.15W

TYPE: WP, RADAR, DME

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	MRA	MAA
1	WASHINGTON	I-DLX	LOC		010.65	000.65		17.31	4000	5000
2	ARMEL	AML	VOR/DME	L			17.49	17.49	4000	5000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
I-DLX	LOC	R-011	18	4700	5000

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

WASHINGTON (FAC 1) AND ARMEL (FAC 2) USED TO ESTABLISH FIX COORDINATES.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC/DME RWY 19C	1, 2		KIAD	WASHINGTON	DC (US)
IAP	ILS RWY 19C (CAT II & III)	1, 2		KIAD	WASHINGTON	DC (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

INFORMATION ONLY

RECORD REVISION NUMBER: 6

DATE OF REVISION: 03/21/2024

REASON FOR REVISION:

1. REMOVED FROM FIX USE AT KIAD; STAR LEGGO (RNAV) AND STAR MAPEL (RNAV).
2. REMOVED HYPER (RNAV) STAR FROM FIX USE.
3. REMOVED STAR FROM REQUIRED CHARTING.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A432

NAME: TYLER MITCHELL

APPROVED BY:

DATE: 03/21/2024

OFFICE: AJV-A432

NAME: CASIMIR TABAKA

SIGNATURE:

RADIO FIX AND HOLDING DATA RECORD

NAME: HYPER

STATE: MD

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 394102.16N/0771330.34W

TYPE: WP, INT, DME

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	MRA	MAA
1	MARTINSBURG	MRB	VORTAC	L	065.08	058.08	34.01	34.01	5000	32000
2	WESTMINSTER	EMI	VORTAC	VH	322.80	314.80		16.09	5500	32000
3	LANCASTER	LRP	VOR/DME	L	248.07	239.07	50.42	50.42	9000	32000
4	FREDERICK	FDK	VOR	T	031.10	023.10		17.71	6000	12000
5	SELINSGROVE	SEG	VOR/DME	L	201.40	193.40	68.19	68.19	6000	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
LRP	VOR/DME	R-248	51	9000	32000
SEG	VOR/DME	R-201	69	6000	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG TIME	LENGTH DME	HOLDING ALTITUDES MIN MAX	TEMPLATES MIN MAX
1	NE	MRB	VORTAC	065.08	245.08	L	1		5000 14000	8 10
2	E	LRP	VOR/DME	248.07	248.07	L	1		9000 14000	9 10
3	E		WP	068.61	248.61	L		4	7000 13000	7 9

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	210	AAO	394245.00N/0765530.00W	1329	4E
2	210	AAO	394245.00N/0765530.00W	1329	4E
3	210	AAO	394212.00N/0765648.00W	1309	4E

REASON FOR NONSTANDARD HOLDING:

PAT 1 PAT 2 AND PAT 3 TO REMAIN CLEAR OF R4009.

HOLDING RESTRICTIONS:

PAT 1 CHART 210K ICON
HOLDING LIMITED TO ESTABLISHED PATTERNS.
PAT 3 CHART 210K ICON

INFORMATION ONLY

REMARKS:

MARTINSBURG (FAC 1) AND WESTMINSTER (FAC 2) USED TO ESTABLISH FIX COORDINATES.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.
PAT 2 USED IN THE EVENT FAC 1 OTS (NOT CHARTED), MAX HOLDING AIRSPEED 210 KIAS.
LANCASTER (LRP) VOR ESV DOCUMENTED IN EXPANDED SERVICE VOLUME (ESV) SECTION.
LANCASTER (LRP) DME ESV: R-248, 51NM, MIN ALT 4000, MAX ALTITUDE 32000.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	J6	2, 3				(US)
EN ROUTE	V143	1, 2, 3	1			(US)
EN ROUTE	V39	1, 2, 3	1			(US)
IAP	RNAV (GPS) RWY 16			KDMW	WESTMINSTER	MD (US)
STAR	HYPER (RNAV)		3	KHEF	WASHINGTON	DC (US)
STAR	DELRO	1, 2, 3, 4	1	KIAD	WASHINGTON	DC (US)
STAR	HYPER (RNAV)		3	KIAD	WASHINGTON	DC (US)
STAR	PRTZL (RNAV)		3	KIAD	WASHINGTON	DC (US)
STAR	SELINSGROVE	1, 2, 3, 4, 5	1	KIAD	WASHINGTON	DC (US)
STAR	HYPER (RNAV)		3	KCJR	CULPEPER	VA (US)
STAR	HYPER (RNAV)		3	KEZF	FREDERICKSBURG	VA (US)
STAR	HYPER (RNAV)		3	KFRR	FRONT ROYAL	VA (US)
STAR	HYPER (RNAV)		3	KJYO	LEESBURG	VA (US)
STAR	HYPER (RNAV)		3	KNYG	QUANTICO	VA (US)
STAR	HYPER (RNAV)		3	KRMN	STAFFORD	VA (US)
STAR	HYPER (RNAV)		3	KHWY	WARRENTON	VA (US)
STAR	HYPER (RNAV)		3	KOKV	WINCHESTER	VA (US)
STAR	HYPER (RNAV)		3	KMRB	MARTINSBURG	WV (US)

REQUIRED CHARTING: STAR, IAP, CONTROLLER, EN ROUTE LOW, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 17

DATE OF REVISION: 03/21/2024

REASON FOR REVISION:
ADDED STAR PRTZL (RNAV) AT KIAD TO FIX USE.
REMOVED STAR LEGGO (RNAV) AT KIAD FROM FIX USE.
CHANGED REQUIRED CHARTING FROM CONTROLLER TO CONTROLLER LOW AND CONTROLLER HIGH.

INITIATED BY:	DATE:	ORGANIZATION:	NAME:
OFFICE OF PRIMARY RESPONSIBILITY:		AJV-A433	NAME: GUY COPELAND
APPROVED BY:	DATE: 03/21/2024	OFFICE: AJV-A430	NAME: JOHNNIE BAKER

SIGNATURE:

INFORMATION ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: JOANE

STATE: PA

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 400238.48N/0762721.40W

TYPE: WP, INT, DME

AIRSPACE DOCKET: 21-AEA-31

FIX TYPE OF ACTION: NO CHANGE

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM FEET	MRA	MAA
1	DUPONT	DQO	VORTAC	L	309.49	299.49	44.94	44.94	3000	40000
2	LANCASTER	LRP	VOR/DME	L	248.07	239.07	8.85	8.85	3000	17500
3	HARRISBURG	HAR	VORTAC	L	128.55	118.55		32.19	4000	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
DQO	VORTAC	R-309	45	3000	40000

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

DUPONT (FAC 1) AND LANCASTER (FAC 2) USED TO ESTABLISH FIX COORDINATES.
SECTIONAL PER ATC REQUEST

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	T452					(US)
EN ROUTE	V143	1, 2				(US)
EN ROUTE	V39	1, 2				(US)
EN ROUTE	V469	1, 2, 3				(US)
STAR	HYPER (RNAV)			KHEF	WASHINGTON	DC (US)
STAR	DELRO	1, 2		KIAD	WASHINGTON	DC (US)
STAR	HYPER (RNAV)			KIAD	WASHINGTON	DC (US)
STAR	HYPER (RNAV)			KCJR	CULPEPER	VA (US)
STAR	HYPER (RNAV)			KEZF	FREDERICKSBURG	VA (US)
STAR	HYPER (RNAV)			KFRR	FRONT ROYAL	VA (US)
STAR	HYPER (RNAV)			KJYO	LEESBURG	VA (US)
STAR	HYPER (RNAV)			KNYG	QUANTICO	VA (US)
STAR	HYPER (RNAV)			KRMN	STAFFORD	VA (US)
STAR	HYPER (RNAV)			KHWY	WARRENTON	VA (US)
STAR	HYPER (RNAV)			KOKV	WINCHESTER	VA (US)
STAR	HYPER (RNAV)			KMRB	MARTINSBURG	WV (US)

REQUIRED CHARTING: SECTIONAL, STAR, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 7

DATE OF REVISION: 10/05/2023

REASON FOR REVISION:

- DOCKET: ADDED "21-AEA-31"
- REMARKS: REMOVED "AMENDED FAC 1 MAA FROM 17500 TO 40000 TO MATCH APPROVED ESV IN ESVMS." AND "FAC 3 ADDED TO SUPPORT DEPICTION ON V469."; ADDED "SECTIONAL PER ATC REQUEST"
- FIX USE: ADDED "EN ROUTE T452"
- CHARTING: UPDATED "CONTROLLER" TO "CONTROLLER LOW"; ADDED "SECTIONAL"

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A421

NAME: HENRY BRADSHAW

APPROVED BY:

DATE: 10/05/2023

OFFICE: AJV-A423

NAME: ALLAN WILL

SIGNATURE:

INFORMATION ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: KEAVR

STATE: PA

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 411128.24N/0741433.66W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

HOLDING:

HOLDING TYPE OF ACTION:

FIX USE:

USE TYPE

STAR	HYPER (RNAV)
STAR	HYPER (RNAV)
STAR	HYPER (RNAV)
STAR	HYPER (RNAV)
STAR	HYPER (RNAV)
STAR	HYPER (RNAV)
STAR	HYPER (RNAV)
STAR	HYPER (RNAV)
STAR	HYPER (RNAV)
STAR	HYPER (RNAV)
STAR	HYPER (RNAV)

USE TITLE

FAC

PAT

AIRPORT IDENT

CITY

STATE

KHEF	WASHINGTON
KIAD	WASHINGTON
KCJR	CULPEPER
KEZF	FREDERICKSBURG
KFRR	FRONT ROYAL
KJYO	LEESBURG
KNYG	QUANTICO
KRMN	STAFFORD
KHWY	WARRENTON
KOKV	WINCHESTER
KMRB	MARTINSBURG

DC (US)
DC (US)
VA (US)
VA (US)
VA (US)
VA (US)
VA (US)
VA (US)
VA (US)
VA (US)
WV (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

INFORMATION ONLY

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 08/20/2015

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 04/07/2015

OFFICE: AJV-352

NAME: PETER GUIMOND

APPROVED BY:

DATE: 08/04/2015

OFFICE: AJV-352

NAME: ADOLFO URRUTIA

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: EST
ARTCC: ZNY
ATC FACILITY:
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: KUKSE

STATE: VA

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 390850.86N/0773428.65W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	GIBBZ (RNAV)			KIAD	WASHINGTON	DC (US)
STAR	HYPER (RNAV)			KIAD	WASHINGTON	DC (US)
STAR	PRTZL (RNAV)			KIAD	WASHINGTON	DC (US)
STAR	WAYNZ (STAR)			KIAD	WASHINGTON	DC (US)
STAR	GIBBZ (RNAV)			KJYO	LEESBURG	VA (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 03/21/2024

REASON FOR REVISION:

ADDED STARS WAYNZ (RNAV) AND PRTZL (RNAV) AT KIAD TO FIX USE.
REMOVED STARS MAPEL (RNAV) AND LEGGO (RNAV) AT KIAD FROM FIX USE.
ADDED STAR GIBBZ (RNAV) TO KIAD AND KJYO TO FIX USE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A433

NAME: GUY COPELAND

APPROVED BY:

DATE: 03/21/2024

OFFICE: AJV-A430

NAME: JOHNNIE BAKER

SIGNATURE:

INFORMATION ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: LIRCH

STATE: PA

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 394936.36N/0765520.03W

TYPE: WP, INT, DME

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	FEET	MRA	MAA
1	LANCASTER	LRP	VOR/DME	L	248.07	239.07	34.00	34.00		6000	17500
2	WESTMINSTER	EMI	VORTAC	H	015.46	007.46		20.06		6000	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

LANCASTER (FAC 1) AND WESTMINSTER (FAC 2) USED TO ESTABLISH FIX COORDINATES.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	HYPER (RNAV)			KHEF	WASHINGTON	DC (US)
STAR	DELRO	1, 2		KIAD	WASHINGTON	DC (US)
STAR	HYPER (RNAV)			KIAD	WASHINGTON	DC (US)
STAR	HYPER (RNAV)			KCJR	CULPEPER	VA (US)
STAR	HYPER (RNAV)			KEZF	FREDERICKSBURG	VA (US)
STAR	HYPER (RNAV)			KFRR	FRONT ROYAL	VA (US)
STAR	HYPER (RNAV)			KJYO	LEESBURG	VA (US)
STAR	HYPER (RNAV)			KNYG	QUANTICO	VA (US)
STAR	HYPER (RNAV)			KRMN	STAFFORD	VA (US)
STAR	HYPER (RNAV)			KHWY	WARRENTON	VA (US)
STAR	HYPER (RNAV)			KOKV	WINCHESTER	VA (US)
STAR	HYPER (RNAV)			KMRB	MARTINSBURG	WV (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 09/15/2016

REASON FOR REVISION:

1. UPDATE FAC 1 FROM VORTAC TO VOR/DME.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 05/23/2016

OFFICE: AJV-5421

NAME: JACOB POWERS (DARREN HOOPER)

APPROVED BY:

DATE: 08/09/2016

OFFICE: AJV-5410

NAME: MARLON ROBINSON

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: EST
ARTCC: ZNY
ATC FACILITY: POTOMAC APP CON
OTHER:

INFORMATION ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: LITEY

STATE: MD

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 392131.86N/0772547.63W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	HYPER (RNAV)			KHEF	WASHINGTON	DC (US)
STAR	HYPER (RNAV)			KIAD	WASHINGTON	DC (US)
STAR	LEGGO (RNAV)			KIAD	WASHINGTON	DC (US)
STAR	MAPEL (RNAV)			KIAD	WASHINGTON	DC (US)
STAR	HYPER (RNAV)			KCJR	CULPEPER	VA (US)
STAR	HYPER (RNAV)			KEZF	FREDERICKSBURG	VA (US)
STAR	HYPER (RNAV)			KFRR	FRONT ROYAL	VA (US)
STAR	HYPER (RNAV)			KJYO	LEESBURG	VA (US)
STAR	HYPER (RNAV)			KNYG	QUANTICO	VA (US)
STAR	HYPER (RNAV)			KRMN	STAFFORD	VA (US)
STAR	HYPER (RNAV)			KHWY	WARRENTON	VA (US)
STAR	HYPER (RNAV)			KOKV	WINCHESTER	VA (US)
STAR	HYPER (RNAV)			KMRB	MARTINSBURG	WV (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 08/20/2015

REASON FOR REVISION:

1. DELETED GRAVZ STAR FROM FIX USE.
2. ADDED MAPEL AND LEGGO STAR(S) TO FIX USE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 04/04/2015

OFFICE: AJV-352

NAME: PETER GUIMOND

APPROVED BY:

DATE: 08/04/2015

OFFICE: AJV-352

NAME: ADOLFO URRUTIA

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: EST
ARTCC: ZDC
ATC FACILITY: POTOMAC APP CON
OTHER:

INFORMATION ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: MODENA VORTAC

STATE: PA

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 395504.98N/0754014.96W

TYPE:

AIRSPACE DOCKET: 22-AEA-20

FIX TYPE OF ACTION: NO CHANGE

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	FEET	MRA	MAA
1	MODENA	MXE	VORTAC	L							17500

FIX RESTRICTIONS:

MCA V184 10000 WESTBOUND

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG TIME	LENGTH DME	HOLDING ALTITUDES MIN	MAX	TEMPLATES MIN	MAX
1	SW	MXE	VORTAC	234.00	054.00	R	1		2000	7000	4	8
2	SW		WP	237.00	057.00	R		4	3000	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	395327.00N/0754803.00W	768	4B
2	200	AAO	395300.00N/0754912.00W	768	4E

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN(S)

REMARKS:

ASSIGNED FACILITY MAGVAR: 9W (1965).
PRECIPITOUS TERRAIN EVALUATION COMPLETED.
ATC REQUEST SECTIONAL CHARTING.

INFORMATION ONLY

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	PHILADELPHIA			KPHL	PHILADELPHIA	PA (US)
EN ROUTE	Q75					(US)
EN ROUTE	T456					(US)
EN ROUTE	V184					(US)
EN ROUTE	V29					(US)
EN ROUTE	V3					(US)
EN ROUTE	V378					(US)
EN ROUTE	V408					(US)
EN ROUTE	V419					(US)
IAP	RNAV (GPS) RWY 19			KILG	WILMINGTON	DE (US)
IAP	RNAV (GPS) RWY 9			KILG	WILMINGTON	DE (US)
IAP	RNAV (GPS) RWY 25			7N7	PEDRICKTOWN	NJ (US)
IAP	RNAV (GPS) RWY 7			7N7	PEDRICKTOWN	NJ (US)
IAP	VOR/DME RWY 26			KLNS	LANCASTER	PA (US)
IAP	RNAV (GPS) RWY 6			KLOM	PHILADELPHIA	PA (US)
IAP	FREEDOM VISUAL RWY 9L			KPHL	PHILADELPHIA	PA (US)
IAP	ILS OR LOC RWY 27L		1	KPHL	PHILADELPHIA	PA (US)
IAP	ILS OR LOC RWY 27R		1	KPHL	PHILADELPHIA	PA (US)
IAP	ILS OR LOC RWY 9L			KPHL	PHILADELPHIA	PA (US)
IAP	ILS RWY 27L (SA CAT II)		1	KPHL	PHILADELPHIA	PA (US)
IAP	ILS RWY 27R (SA CAT I & II)		1	KPHL	PHILADELPHIA	PA (US)
IAP	ILS RWY 9L (SA CAT II)			KPHL	PHILADELPHIA	PA (US)
IAP	ILS V RWY 17 (CONVERGING)			KPHL	PHILADELPHIA	PA (US)
IAP	ILS V RWY 9R (CONVERGING)			KPHL	PHILADELPHIA	PA (US)
IAP	ILS Z OR LOC RWY 17			KPHL	PHILADELPHIA	PA (US)
IAP	ILS Z OR LOC Z RWY 9R			KPHL	PHILADELPHIA	PA (US)
IAP	ILS Z RWY 9R (CAT II & III)			KPHL	PHILADELPHIA	PA (US)
IAP	ILS Z RWY 9R (SA CAT I)			KPHL	PHILADELPHIA	PA (US)
IAP	LIBERTY VISUAL RWY 27L			KPHL	PHILADELPHIA	PA (US)
IAP	RNAV (GPS) RWY 27R		2	KPHL	PHILADELPHIA	PA (US)
IAP	RNAV (GPS) Y RWY 9L			KPHL	PHILADELPHIA	PA (US)
IAP	RNAV (GPS) Y RWY 9R			KPHL	PHILADELPHIA	PA (US)
IAP	ILS OR LOC RWY 13			KRDG	READING	PA (US)
IAP	ILS OR LOC RWY 36			KRDG	READING	PA (US)
IAP	RNAV (GPS) RWY 36			KRDG	READING	PA (US)
IAP	RNAV (GPS) RWY 27			KOQN	WEST CHESTER	PA (US)
IAP	VOR-A		1	KOQN	WEST CHESTER	PA (US)
STAR	CLIPR (RNAV)			KDCA	WASHINGTON	DC (US)
STAR	HYPER (RNAV)			KHEF	WASHINGTON	DC (US)
STAR	DELRO			KIAD	WASHINGTON	DC (US)
STAR	HYPER (RNAV)			KIAD	WASHINGTON	DC (US)
STAR	HARRISBURG			KWRI	WRIGHTSTOWN	NJ (US)
STAR	HYPER (RNAV)			KCJR	CULPEPER	VA (US)
STAR	HYPER (RNAV)			KEZF	FREDERICKSBURG	VA (US)

STAR	HYPER (RNAV)	KFRR	FRONT ROYAL	VA (US)
STAR	HYPER (RNAV)	KJYO	LEESBURG	VA (US)
STAR	HYPER (RNAV)	KNYG	QUANTICO	VA (US)
STAR	HYPER (RNAV)	KRMN	STAFFORD	VA (US)
STAR	HYPER (RNAV)	KHWY	WARRENTON	VA (US)
STAR	HYPER (RNAV)	KOKV	WINCHESTER	VA (US)
STAR	HYPER (RNAV)	KMRB	MARTINSBURG	WV (US)

REQUIRED CHARTING: SECTIONAL, DP, STAR, IAP, AREA, EN ROUTE LOW, EN ROUTE HIGH, CONTROLLER LOW, CONTROLLER HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 28 **DATE OF REVISION:** 03/21/2024

REASON FOR REVISION:
1. DOCKET: ADDED "22-AEA-20".
2. FIX USE: REMOVED "EN ROUTE V170"

INFORMATION ONLY

INITIATED BY:	DATE:	ORGANIZATION:	NAME:
OFFICE OF PRIMARY RESPONSIBILITY:		AJV-A423	NAME: HENRY BRADSHAW
APPROVED BY:	DATE: 03/21/2024	OFFICE: AJV-A423	NAME: MICHAEL GARRITY
	SIGNATURE:		

RADIO FIX AND HOLDING DATA RECORD

NAME: OOGLE

STATE: MD

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 392507.23N/0772328.21W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: CANCEL

HOLDING:

HOLDING TYPE OF ACTION:

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	HYPER (RNAV)			KHEF	WASHINGTON	DC (US)
STAR	HYPER (RNAV)			KIAD	WASHINGTON	DC (US)
STAR	LEGGO (RNAV)			KIAD	WASHINGTON	DC (US)
STAR	HYPER (RNAV)			KCJR	CULPEPER	VA (US)
STAR	HYPER (RNAV)			KEZF	FREDERICKSBURG	VA (US)
STAR	HYPER (RNAV)			KFRR	FRONT ROYAL	VA (US)
STAR	HYPER (RNAV)			KJYO	LEESBURG	VA (US)
STAR	HYPER (RNAV)			KNYG	QUANTICO	VA (US)
STAR	HYPER (RNAV)			KRMN	STAFFORD	VA (US)
STAR	HYPER (RNAV)			KHWY	WARRENTON	VA (US)
STAR	HYPER (RNAV)			KOKV	WINCHESTER	VA (US)
STAR	HYPER (RNAV)			KMRB	MARTINSBURG	WV (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

INFORMATION ONLY

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 08/20/2015

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 04/06/2015

OFFICE: AJV-352

NAME: PETER GUIMOND

APPROVED BY:

DATE: 03/21/2024

OFFICE: AJV-A432

NAME: CASIMIR TABAKA

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: EST
ARTCC: ZDC
ATC FACILITY: POTOMAC APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: PARKE

STATE: NJ

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 404059.46N/0750435.32W

TYPE: WP, INT, DME

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	FEET	MRA	MAA
1	BROADWAY	BWZ	VOR/DME	L	250.33	239.33	13.51	13.51		3000	39000
2	YARDLEY	ARD	VOR/DME	L	353.35	343.35		26.91		3000	28000
3	SOLBERG	SBJ	VOR/DME	VL	301.55	291.55		16.43		3000	39000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
BWZ	VOR/DME	R-250	14	18000	39000
ARD	VOR/DME	R-353	27	18000	28000
SBJ	VOR/DME	R-302	17	18000	39000

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

BROADWAY (FAC 1) AND YARDLEY (FAC 2) USED TO ESTABLISH FIX COORDINATES.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BRIDGEHAVEN			KBDR	BRIDGEPORT	CT (US)
DP	BRIDGEHAVEN			KHVN	NEW HAVEN	CT (US)
DP	MORRISTOWN	1, 3		KMMU	MORRISTOWN	NJ (US)
DP	DEVIL	1		KEWR	NEWARK	NJ (US)
DP	LIBERTY	1, 3		KEWR	NEWARK	NJ (US)
DP	NEWARK	1, 3		KEWR	NEWARK	NJ (US)
DP	PORTT (RNAV)			KEWR	NEWARK	NJ (US)
DP	RUUDY (RNAV)			KTEB	TETERBORO	NJ (US)
DP	TETERBORO	1		KTEB	TETERBORO	NJ (US)
DP	GLDMN (RNAV)			KLGA	NEW YORK	NY (US)
DP	JUTES (RNAV)			KLGA	NEW YORK	NY (US)
DP	LA GUARDIA	1		KLGA	NEW YORK	NY (US)
DP	TNNIS (RNAV)			KLGA	NEW YORK	NY (US)
DP	PROP	1		KHPN	WHITE PLAINS	NY (US)
DP	WESTCHESTER	1		KHPN	WHITE PLAINS	NY (US)
EN ROUTE	J6	1, 2, 3				NJ (US)
EN ROUTE	V457	1, 2, 3				NJ (US)
STAR	HYPER (RNAV)			KHEF	WASHINGTON	DC (US)
STAR	HYPER (RNAV)			KIAD	WASHINGTON	DC (US)
STAR	HYPER (RNAV)			KCJR	CULPEPER	VA (US)
STAR	HYPER (RNAV)			KEZF	FREDERICKSBURG	VA (US)
STAR	HYPER (RNAV)			KFRR	FRONT ROYAL	VA (US)
STAR	HYPER (RNAV)			KJYO	LEESBURG	VA (US)
STAR	HYPER (RNAV)			KNYG	QUANTICO	VA (US)
STAR	HYPER (RNAV)			KRMN	STAFFORD	VA (US)
STAR	HYPER (RNAV)			KHWY	WARRENTON	VA (US)
STAR	HYPER (RNAV)			KOKV	WINCHESTER	VA (US)
STAR	HYPER (RNAV)			KMRB	MARTINSBURG	WV (US)

REQUIRED CHARTING: DP, STAR, EN ROUTE LOW, EN ROUTE HIGH, CONTROLLER LOW, CONTROLLER HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 10

DATE OF REVISION: 11/30/2023

REASON FOR REVISION:

1. CHANGED FIX MAKE-UP FACILITIES FAC 3 SBJ VOR/DME CLASS FROM L TO VL.
2. ADDED FIX USE DP DEVIL AT KEWR.
3. ADDED FAC 1 TO FIX USE DP PROP AND DP WESTCHESTER AT KHPN.
4. ADDED FAC 1 TO FIX USE DP LA GUARDIA AT KLGA.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A431

NAME: MICHAEL MCCARTNEY

APPROVED BY:

DATE: 11/30/2023

OFFICE: AJV-A431

NAME: ERIC N SUSKI

SIGNATURE:

INFORMATION ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: PHATT

STATE: MD

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 393429.51N/0772121.90W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	HYPER (RNAV)			KHEF	WASHINGTON	DC (US)
STAR	HYPER (RNAV)			KIAD	WASHINGTON	DC (US)
STAR	PRTZL (RNAV)			KIAD	WASHINGTON	DC (US)
STAR	HYPER (RNAV)			KCJR	CULPEPER	VA (US)
STAR	HYPER (RNAV)			KEZF	FREDERICKSBURG	VA (US)
STAR	HYPER (RNAV)			KFRR	FRONT ROYAL	VA (US)
STAR	HYPER (RNAV)			KJYO	LEESBURG	VA (US)
STAR	HYPER (RNAV)			KNYG	QUANTICO	VA (US)
STAR	HYPER (RNAV)			KRMN	STAFFORD	VA (US)
STAR	HYPER (RNAV)			KHWY	WARRENTON	VA (US)
STAR	HYPER (RNAV)			KOKV	WINCHESTER	VA (US)
STAR	HYPER (RNAV)			KMRB	MARTINSBURG	WV (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

INFORMATION ONLY

RECORD REVISION NUMBER: 1

DATE OF REVISION: 03/21/2024

REASON FOR REVISION:

ADDED STAR PRTZL (RNAV) AT KIAD TO FIX USE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A433

NAME: GUY COPELAND

APPROVED BY:

DATE: 03/21/2024

OFFICE: AJV-A430

NAME: JOHNNIE BAKER

SIGNATURE:

RADIO FIX AND HOLDING DATA RECORD

NAME: REXOE

STATE: MD

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 392133.17N/0772807.54W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: CANCEL

HOLDING:

HOLDING TYPE OF ACTION:

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	HYPER (RNAV)			KHEF	WASHINGTON	DC (US)
STAR	HYPER (RNAV)			KIAD	WASHINGTON	DC (US)
STAR	LEGGO (RNAV)			KIAD	WASHINGTON	DC (US)
STAR	MAPEL (RNAV)			KIAD	WASHINGTON	DC (US)
STAR	HYPER (RNAV)			KCJR	CULPEPER	VA (US)
STAR	HYPER (RNAV)			KEZF	FREDERICKSBURG	VA (US)
STAR	HYPER (RNAV)			KFRR	FRONT ROYAL	VA (US)
STAR	HYPER (RNAV)			KJYO	LEESBURG	VA (US)
STAR	HYPER (RNAV)			KNYG	QUANTICO	VA (US)
STAR	HYPER (RNAV)			KRMN	STAFFORD	VA (US)
STAR	HYPER (RNAV)			KHWY	WARRENTON	VA (US)
STAR	HYPER (RNAV)			KOKV	WINCHESTER	VA (US)
STAR	HYPER (RNAV)			KMRB	MARTINSBURG	WV (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

INFORMATION ONLY

RECORD REVISION NUMBER: 1

DATE OF REVISION: 08/20/2015

REASON FOR REVISION:

1. DELETED GRAVZ STAR FROM FIX USE.
2. ADDED MAPEL AND LEGGO STAR(S) TO FIX USE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 04/04/2015

OFFICE: AJV-352

NAME: PETER GUIMOND

APPROVED BY:

DATE: 03/21/2024

OFFICE: AJV-A432

NAME: CASIMIR TABAKA

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: EST
ARTCC: ZDC
ATC FACILITY: POTOMAC APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: ROBBINSVILLE VORTAC STATE: NJ COUNTRY: US ICAO REGION CODE: K6
 LATITUDE/LONGITUDE: 401208.65N/0742942.09W TYPE:
 AIRSPACE DOCKET: 21-AEA-16 FIX TYPE OF ACTION: NO CHANGE

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM FEET	MRA	MAA
1	ROBBINSVILLE	RBV	VORTAC	H						45000

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG TIME	LENGTH DME	HOLDING ALTITUDES MIN MAX	TEMPLATES MIN MAX
1	E	RBV	VORTAC	108.22	288.22	R	1		1700 5000	4 5
2	W	RBV	VORTAC	247.95	067.95	R	1		2000 17500	4 16
3	SW	WP	WP	232.11	052.11	L		4	1700 6000	4 6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (34-000693)	401202.00N/0742528.00W	637	5D
2	210	TOWER (34-000693)	401202.00N/0742528.00W	637	5D
3	200	TOWER (34-000693)	401202.00N/0742528.00W	637	5D

REASON FOR NONSTANDARD HOLDING:

PAT 3 STAY CLEAR OF R-5001 A & B.

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN(S)
 PAT 2 CHART 210K ICON

INFORMATION ONLY

REMARKS:

PATTERN 3 ALSO USED FOR NON-RADAR OPS BY WRI RAPCON
 PRECIPITOUS TERRAIN EVALUATION COMPLETED
 ASSIGNED FACILITY MAGVAR: 10W (1965)

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	ATLANTIC CITY			KACY	ATLANTIC CITY	NJ (US)
DP	CENTRAL			47N	MANVILLE	NJ (US)
DP	LEEAH			KMIV	MILLVILLE	NJ (US)
DP	PRINCETON			39N	PRINCETON/ROCKY HILL	NJ (US)
DP	MODENA			KWRI	WRIGHTSTOWN	NJ (US)
DP	POINT PLEASANT			KWRI	WRIGHTSTOWN	NJ (US)
DP	POTTSTOWN			KWRI	WRIGHTSTOWN	NJ (US)
DP	REPUBLIC			KFRG	FARMINGDALE	NY (US)
DP	KENNEDY			KJFK	NEW YORK	NY (US)
DP	SKORR (RNAV)			KJFK	NEW YORK	NY (US)
DP	HOPEA (RNAV)			KLGA	NEW YORK	NY (US)
DP	JUTES (RNAV)			KLGA	NEW YORK	NY (US)
DP	LA GUARDIA			KLGA	NEW YORK	NY (US)
DP	NTHNS (RNAV)			KLGA	NEW YORK	NY (US)
DP	WESTCHESTER			KHPN	WHITE PLAINS	NY (US)
DP	PHILADELPHIA			KPHL	PHILADELPHIA	PA (US)
EN ROUTE	Q22					(US)
EN ROUTE	Q34					(US)
EN ROUTE	Q419					(US)
EN ROUTE	Q430					(US)
EN ROUTE	T436					(US)
EN ROUTE	T438					(US)
EN ROUTE	V123					(US)
EN ROUTE	V157					(US)
EN ROUTE	V213					(US)
EN ROUTE	V249					(US)
EN ROUTE	V252					(US)
EN ROUTE	V276					(US)
IAP	RNAV (GPS) RWY 14			KBLM	BELMAR/FARMINGDALE	NJ (US)
IAP	RNAV (GPS) RWY 32		3	KBLM	BELMAR/FARMINGDALE	NJ (US)
IAP	VOR-A			KBLM	BELMAR/FARMINGDALE	NJ (US)
IAP	RNAV (GPS) RWY 23			19N	BERLIN	NJ (US)
IAP	NDB RWY 24			KNEL	LAKEHURST	NJ (US)
IAP	TACAN RWY 24			KNEL	LAKEHURST	NJ (US)
IAP	TACAN Z RWY 33			KNEL	LAKEHURST	NJ (US)
IAP	VOR OR VOR/DME OR TACAN Y RWY 33			KNEL	LAKEHURST	NJ (US)
IAP	RNAV (GPS) RWY 19			N14	LUMBERTON	NJ (US)
IAP	VOR-A			N14	LUMBERTON	NJ (US)
IAP	VOR RWY 26			KVAY	MOUNT HOLLY	NJ (US)
IAP	COPTER ILS/DME RWY 22L			KEWR	NEWARK	NJ (US)

IAP	ILS OR LOC RWY 22L		KEWR	NEWARK	NJ (US)
IAP	ILS OR LOC RWY 22R		KEWR	NEWARK	NJ (US)
IAP	ILS OR LOC RWY 4R		KEWR	NEWARK	NJ (US)
IAP	ILS RWY 22L (CAT II - III)		KEWR	NEWARK	NJ (US)
IAP	ILS RWY 22L (SA CAT I)		KEWR	NEWARK	NJ (US)
IAP	ILS RWY 4R (CAT II - III)		KEWR	NEWARK	NJ (US)
IAP	RNAV (GPS) RWY 24		3N6	OLD BRIDGE	NJ (US)
IAP	RNAV (GPS) RWY 6	3	3N6	OLD BRIDGE	NJ (US)
IAP	VOR RWY 24		3N6	OLD BRIDGE	NJ (US)
IAP	RNAV (GPS) RWY 29		N87	ROBBINSVILLE	NJ (US)
IAP	VOR RWY 29	1	N87	ROBBINSVILLE	NJ (US)
IAP	VOR RWY 24		KMJX	TOMS RIVER	NJ (US)
IAP	VOR RWY 6		KMJX	TOMS RIVER	NJ (US)
IAP	VOR/DME OR TACAN RWY 18		KWRI	WRIGHTSTOWN	NJ (US)
IAP	VOR/DME OR TACAN RWY 36		KWRI	WRIGHTSTOWN	NJ (US)
IAP	VOR/DME OR TACAN RWY 6		KWRI	WRIGHTSTOWN	NJ (US)
IAP	ILS OR LOC RWY 22L		KJFK	NEW YORK	NY (US)
IAP	ILS OR LOC RWY 22R	2	KJFK	NEW YORK	NY (US)
IAP	ILS OR LOC RWY 31L		KJFK	NEW YORK	NY (US)
IAP	ILS OR LOC RWY 31R		KJFK	NEW YORK	NY (US)
IAP	ILS RWY 22L (CAT II - III)		KJFK	NEW YORK	NY (US)
IAP	VOR RWY 22L		KJFK	NEW YORK	NY (US)
IAP	VOR RWY 31L		KJFK	NEW YORK	NY (US)
IAP	COPTER ILS OR LOC RWY 22		KLGA	NEW YORK	NY (US)
IAP	ILS V RWY 17 (CONVERGING)		KPHL	PHILADELPHIA	PA (US)
IAP	ILS OR LOC RWY 24		KPNE	PHILADELPHIA	PA (US)
IAP	RNAV (GPS) RWY 24		KPNE	PHILADELPHIA	PA (US)
STAR	HYPER (RNAV)		KHEF	WASHINGTON	DC (US)
STAR	HYPER (RNAV)		KIAD	WASHINGTON	DC (US)
STAR	DYLIN		KEWR	NEWARK	NJ (US)
STAR	HARRISBURG		KWRI	WRIGHTSTOWN	NJ (US)
STAR	CAMRN		KFRG	FARMINGDALE	NY (US)
STAR	CAMRN		KJFK	NEW YORK	NY (US)
STAR	KORRY	2	KLGA	NEW YORK	NY (US)
STAR	MILTON		KLGA	NEW YORK	NY (US)
STAR	HYPER (RNAV)		KCJR	CULPEPER	VA (US)
STAR	HYPER (RNAV)		KEZF	FREDERICKSBURG	VA (US)
STAR	HYPER (RNAV)		KFRR	FRONT ROYAL	VA (US)
STAR	HYPER (RNAV)		KJYO	LEESBURG	VA (US)
STAR	HYPER (RNAV)		KNYG	QUANTICO	VA (US)
STAR	HYPER (RNAV)		KRMN	STAFFORD	VA (US)
STAR	HYPER (RNAV)		KHWY	WARRENTON	VA (US)
STAR	HYPER (RNAV)		KOKV	WINCHESTER	VA (US)
STAR	HYPER (RNAV)		KMRB	MARTINSBURG	WV (US)

REQUIRED CHARTING: DP, STAR, MILITARY IAP, MILITARY DP, MILITARY STAR, IAP, EN ROUTE LOW, EN ROUTE HIGH, CONTROLLER LOW, CONTROLLER HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 31

DATE OF REVISION: 11/03/2022

REASON FOR REVISION:

AIRSPACE DOCKET: CHANGED 20-ASO-31 TO 21-AEA-16.

FIX USE: ADDED T438 AND T436. REMOVED Q115 - NOT CHARTED. REMOVED KPNE LOC BC RWY 6.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: BARRY SMITH

APPROVED BY:

DATE: 11/03/2022

OFFICE: AJV-A420

NAME: MARLON ROBINSON

SIGNATURE:

INFORMATION ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: YYANG

STATE: MD

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 391832.01N/0772550.37W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE
IAP
IAP

USE TITLE

RNAV (GPS) Y RWY 19
RNAV (RNP) Z RWY 19L

FAC

PAT

AIRPORT IDENT

KIAD
KIAD

CITY

WASHINGTON
WASHINGTON

STATE

DC (US)
DC (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3

DATE OF REVISION: 03/21/2024

REASON FOR REVISION:

1. REMOVED FROM FIX USE AT KIAD; STAR LEGGO (RNAV) AND STAR MAPEL (RNAV).
2. REMOVED HYPER (RNAV) STAR FROM FIX USE.
3. REMOVED STAR FROM REQUIRED CHARTING.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A432

NAME: TYLER MITCHELL

APPROVED BY:

DATE: 03/21/2024

OFFICE: AJV-A432

NAME: CASIMIR TABAKA

SIGNATURE:

INFORMATION ONLY